

What Is Claimed Is:

1. A method for transmitting data blocks from a data source (1) to a data sink (8) on a bus (5), which supports the transmission of frames having a variable and limited number n of data elements, having the following steps:
 - a) transmitting (S2), from the data sink (8) to the data source (1), control information which specifies at least the number N of data elements contained in a block to be transmitted;
 - b) if $N > n$, transmitting (D4) $\text{int}(N/n)$ frames, each containing n data elements of the block to be transmitted and transmitting a frame having $(N \bmod n)$ data elements of the block to be transmitted from the data source (1) to the data sink (8), $\text{int}(N/n)$ being the largest integer which is less than or equal to N/n ;
 - c) recognizing the transmission of a block as complete (S9) by the data sink (8) if the number of data elements received in step b) agrees with the number N specified in the control information.
2. The method as recited in Claim 1,
wherein if $N = n$, the data source (1) transmits a single frame having N data elements, and the data sink (8) recognizes the block as complete (S8) already after receiving the single frame.
3. The method as recited in Claim 1 or 2,
wherein the data source (1) transmits the block at a point in time which is specified in the control information.
4. The method as recited in one of the preceding claims,
wherein the data source (1) forms the block from a plurality of parameters specified in the control information.
5. The method as recited in one of the preceding claims,
wherein the bus is a CAN bus.

6. The method as recited in one of the preceding claims,
wherein it is used in a development environment for a controller circuit, the data
source (1) being the controller circuit and the data sink (8) being a host computer.